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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/604,086	06/27/2000	Sung Wook Kim	CU-2238	4337

909 7590 06/02/2005

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EXAMINER

TRIMMINGS, JOHN P

ART UNIT PAPER NUMBER

2133

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/604,086	Applicant(s) KIM ET AL.	
	Examiner John P. Trimmings	Art Unit 2133	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 March 2005 and 06 April 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10 and 11 is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 4 is/are rejected.
- 7) ☒ Claim(s) 3, 5-9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 July 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

HC

DETAILED ACTION

This Office Action is in response to the applicant's amendment dated 3/4/2005, and RCE dated 4/6/2005.

The applicant amended claims 1-4 and 7-8.

Claims 1-11 are pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office Action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/4/2005 has been entered.

Response to Amendment

2. In view of the applicant's changes to Claims 1-3, 8 and 11, the examiner withdraws the objections to said claims.

Response to Arguments

3. Applicant's arguments with respect to a claim of an improper Office Action, dated 1/6/2005, has been considered but are moot in view of the applicant's request for

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continued examination under 37 CFR 1.114, and the examiner's subsequent withdrawal of the finality of said Office Action.

4. Applicant's arguments filed 3/4/2005 have been fully considered but they are not persuasive.

As per Claim 1:

The claim, rejected under 35 USC § 102(e), was transversed by the applicant as not teaching ever feature of the claim, but the examiner disagrees. The applicant argued that Lai et al. failed to disclose dividing each of the write and read data into upper and lower portions. But in Lai et al., in respect to FIG.4A, column 5 lines 65-67 and column 6 lines 1-3 state that there may be two sets of read and write data, DQA and DQB. Looking at FIG.4A and for example, FIG.4B, data enters and exits the memory via the combined two input busses DQA and DQB, each a 9-bit bus (DQA<8:0>, DQB<8:0>) in x8 packet format (FIG.4B TestClkR). During a write to memory, each 9-bit data byte (DQA, DQB) is assembled at the Input Shift Registers (430, 450) as a 72-bit ½ word. Therefore, the input data (DQA, DQB being 144 bits) is disclosed herein as being divided into two 72-bit ½ words in registers 430 and 450. The read out of the memory is based on the same division of data, using two equal output shift registers. Also argued was that Lai et al. failed to teach two compressed error indicators, one for each of the two data portions DQA and DQB. But the examiner notes that each comparator, XOR 465 and XOR 495, provides such an error indication at the output of each XOR circuit, and is therefore taught by Lai et al. Therefore, the examiner maintains the rejection of Claim 1.

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As per Claim 4:

The claim, rejected under 35 USC § 102(e), was transversed by the applicant as not teaching ever feature of the claim, but the examiner disagrees. Lai et al. discloses a command packet driven memory (for example, column 6 lines 4-19), a comparing part for a first data and core data (FIG.4A 465 and 495) for a first number of bits (144 bits), the comparing part generating a second number of bits (2). The data input/output part (a combination of 460, 405, 445 and 440, 480, 425 with 455) produces more than one data part (DQA and DQB) in a packet format (x8 packet format as shown in FIG.4B TestClkR and TestA<16:0>). It is further taught that each of the 9 data out pins in DQA and DQB are serially output in an x8 data packet format as is disclosed in column 5 lines 47-64 and FIG.4B. Therefore, the examiner maintains the rejection of Claim 4.

As per Claim 2:

The applicant, in arguing Claim 2, referred to the argument presented for Claim 1. The examiner, in view of maintaining the rejection of Claim 1, also maintains the rejection of Claim 2 for the same reasons.

Conclusion

Claims 1, 2 and 4 are rejected.

Claims 3 and 5-9 are objected to as being dependent on a rejected claim.


Claims 10 and 11 are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Trimmings whose telephone number is (571) 272-3830. The examiner can normally be reached on Monday through Thursday, 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


John P Trimmings
Examiner
Art Unit 2133

jpt


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